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L41: Entry 1 of 1

File: USPT

May 9, 2006

US-PAT-NO: 7041500

DOCUMENT-IDENTIFIER: US 7041500 B2

TITLE: Insect cell line

DATE-ISSUED: May 9, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030228696 A1

December 11, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Robinson; Robin A.

Dickerson

MD

US

US-CL-CURRENT: 435/348; 435/235.1

CLAIMS:

What is claimed is:

1. The cell line ATCC PTA-4047, or a clone or a transfectant thereof.
2. The cell line of claim 1 infected with a recombinant baculovirus, such that at least one recombinant gene product is extracellularly expressed.
3. The cell line of claim 2, wherein the at least one recombinant gene product is a viral gene product.
4. The cell line of claim 3, wherein the viral gene product is a viral capsid protein that self-assembles into virus-like particles.
5. The cell line of claim 4, wherein the virus-like particles comprise a viral gene product of an enveloped virus, a non-enveloped virus, or both.
6. The cell line of claim 5, wherein the virus-like particles are from a virus comprising rotavirus, calicivirus, papillomavirus, hepatitis C virus, hepatitis E virus, influenza virus, human immunodeficiency virus, or a combination thereof.
7. The cell line of claim 2, wherein the recombinant gene product is encoded by a human papillomavirus polynucleotide.
8. The cell line of claim 7, wherein the human papillomavirus polynucleotides are codon optimized for expression in the cell line.

9. The cell line of claim 8, wherein the human papillomavirus polynucleotides comprise SEQ ID NO. 1, SEQ ID NO. 2, SEQ ID NO. 3, SEQ ID NO. 4, or SEQ ID NO. 5, or a polynucleotide that has at least 50% nucleotide sequence identity to any one of the SEQ ID NO. 1, SEQ ID NO. 2, SEQ ID NO. 3, SEQ ID NO. 4, or SEQ ID NO. 5, or a combination thereof.

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WEST Search History

DATE: Wednesday, March 21, 2007

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<input type="checkbox"/>	L41	HPV-45 and codon optimized and yeast	1
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<input type="checkbox"/>	L39	papillomavirus and codon optimized and yeast	27
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<input type="checkbox"/>	L36	codon optimized and yeast.clm.	41
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<input type="checkbox"/>	L34	HPV-45 and yeast	19
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<input type="checkbox"/>	L13	L12 and papillomavirus	3
<input type="checkbox"/>	L12	Robinson R A.in.	33
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<input type="checkbox"/>	L11	codon optimized and HPV.clm.	19
<input type="checkbox"/>	L10	codon optimized and HPV	68
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<input type="checkbox"/>	L8	Gissmann.in. and salimi.xp.	6
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<input type="checkbox"/>	L6	codon optimized and human papillomavirus.clm.	3
<input type="checkbox"/>	L5	yeast and HPV.clm. and salimi.xp.	36
<input type="checkbox"/>	L4	yeast and HPV and salimi.xp.	59
<input type="checkbox"/>	L3	optimized and HPV and salimi.xp.	15
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<input type="checkbox"/>	L1	codon optimized and HPV.clm.	2

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